

March 24, 2014

S.1

#2)  $(-3)^4 = (-3) \cdot (-3) \cdot (-3) \cdot (-3)$

*↑ Base*

*4 → Even*

*Meaning of Exponent*

$$= 9 \cdot (-3) \cdot (-3)$$

$$= (-27) \cdot (-3)$$

$$= 81$$


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*4 → Even*

$$-3^4 = (-1) \cdot 3^4$$

$$= (-1) \cdot 3 \cdot 3 \cdot 3 \cdot 3$$

$$= (-3) \cdot 3 \cdot 3 \cdot 3$$

$$= (-9) \cdot 3 \cdot 3$$

$$= (-27) \cdot 3$$

$$= -81$$

Mar 24-9:06 AM

#3)  $4x^5$  ;  $x = 3$

$$4(3)^5 = 4 \cdot 243$$

$$= 972$$

Mar 24-9:15 AM

$$(x)(x^2y)$$

$$x^1 \cdot x^2 \cdot y$$

*same base*

Mar 24-9:19 AM

$$(\text{smiley face})^0 = 1$$

Mar 24-9:36 AM

$$\frac{(2x^8y^{-9}d^3)^{-2}}{-18x^{20}y^{-7}d^{-10}}$$

Mar 24-9:43 AM